

ABSTRACT

A [[H]]hybrid protein[[s]] comprising associated a membrane protein with and an ion channel which is not naturally coupled to the membrane protein. Nucleic acids and cells encoding or expressing such hybrid proteins, and their Methods for detecting and screening molecules of interest using such hybrid proteins, such as methods which involve their use as electrical sensors of binding of a molecule to the membrane protein component of the hybrid protein of said membrane proteins (receptor, transporter) activity, for studying said membrane proteins, and for detecting and screening molecules of interest.